

Serial No. 10/505,481
Docket No. 28951.2175

IN THE CLAIMS:

1. (Currently Amended) A plasma display panel, comprising:
a scan electrode and a sustain electrode ~~that are disposed in parallel~~ with each other on a front substrate;
a data electrode ~~disposed on a back substrate in a direction orthogonal~~ positioned orthogonally to the scan electrode and the sustain electrode, the back substrate ~~being disposed to face~~ facing the front substrate with a discharge space therebetween;
and
a first discharge space and a second discharge space ~~that are formed~~ between the front substrate and the back substrate ~~by being partitioned apart~~ apart by a barrier rib, wherein
a main discharge cell for performing a discharge with the scan electrode, the sustain electrode and the data electrode is ~~formed~~ in the first discharge space, a dielectric layer is ~~formed~~ on the back substrate in the second discharge space ~~so as to cover~~ covering the data electrode, a priming electrode, independent of the data electrode, is ~~disposed on the dielectric layer in a manner to make so that~~ the priming electrode is parallel to the scan electrode and the sustain electrode, and a priming discharge cell for performing a discharge with the scan electrode and the priming electrode is ~~formed~~ in the second discharge space, with different voltage signals applied to the priming electrode and the data electrode.

2. (Canceled)

Serial No. 10/505,481
Docket No. 28951.2175

3. (Currently Amended) The plasma display panel according to claim 1, wherein the barrier rib is ~~formed of~~ a longitudinal rib part extending in the direction orthogonal to the scan electrode and the sustain electrode, and a lateral rib part ~~for~~ forming a gap part of continuous groove shape ~~in~~ parallel with the scan electrode and the sustain electrode, and the gap part forms the second discharge space.

4. (Currently Amended) A method for manufacturing a plasma display panel, comprising ~~the steps of~~:

forming a main discharge cell in a first discharge space, the main discharge cell ~~including~~ comprising:

a scan electrode and a sustain electrode ~~that are disposed in~~ parallel with each other on a front substrate;

a data electrode ~~disposed on a back substrate in a direction orthogonal~~ positioned orthogonally to the scan electrode and the sustain electrode, the back substrate ~~being disposed to face facing~~ the front substrate with a discharge space therebetween;
and

the first discharge space and a second discharge space ~~that are formed are~~ between the front substrate and the back substrate ~~by being partitioned~~ apart by a barrier rib, and the main discharge cell for performing a discharge with the scan electrode, the sustain electrode and the data electrode;

forming a dielectric layer ~~that is formed~~ on the back substrate in the second discharge

Serial No. 10/505,481
Docket No. 28951.2175

space ~~so as to cover~~ covering the data electrode;

forming a priming electrode, independent of the data electrode, on the dielectric layer ~~in a manner to make the primary electrode~~ parallel to the scan electrode and the sustain electrode, with different voltage signals applied to the priming electrode and the data electrode; and

forming a priming discharge cell in the second discharge space, the priming discharge cell performing a discharge with the priming electrode and the scan electrode, wherein

~~the step of forming the second discharge space includes the steps of comprising:~~

forming the dielectric layer ~~continuous~~ continuously in a longitudinal direction orthogonal at least to the data electrode; and

forming the priming electrode continuous on the dielectric layer.

5. (Currently Amended) The method for manufacturing the plasma display panel according to claim 4, wherein

~~the step of forming the dielectric layer includes the step of comprising~~ filling dielectric paste into the second discharge space by discharging the dielectric paste at least through a nozzle.

6. (Currently Amended) The method for manufacturing the plasma display panel according to claim 4, wherein

~~the step of forming the priming electrode includes the step of comprising~~ filling electrode material paste into the second discharge space by discharging the electrode material paste at least

Serial No. 10/505,481
Docket No. 28951.2175

through a nozzle.

7. (Currently Amended) The method for manufacturing the plasma display panel according to claim 5 further comprising ~~the step of~~ continuously filling the dielectric layer after the barrier rib is patterned on the back substrate.

8. (Original) The method for manufacturing the plasma display panel according to claim 7, wherein
the barrier rib and the dielectric layer concurrently undergo firing and solidification.